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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/448.301	11/24/1999	HIROSHI YAMAGUCHI	1110-0258P	4884
7590 03/15/2004			EXAMINER	
	VART KOLASCH & B	DO, ANH HONG		
P O BOX 747 FALLS CHURCH, VA 220400747			ART UNIT	PAPER NUMBER
			2624	
			DATE MAIL ED: 02/15/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/448,301	YAMAGUCHI, HIROSHI				
Office Action Summary	Examiner	Art Unit				
	ANH H DO	2624				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty- riod will apply and will expire SIX (6) MON- atute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status		•				
1)⊠ Responsive to communication(s) filed on 23	3 February 2004.					
	·					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
	4a) Of the above claim(s) 3 is/are withdrawn from consideration.					
5) Claim(s) 2 and 14-16 is/are allowed.						
6) Claim(s) 1.4,5,7-13,17 and 18 is/are rejecte	☑ Claim(s) <u>1,4,5,7-13,17 and 18</u> is/are rejected.					
7)⊠ Claim(s) <u>6</u> is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	niner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn	ents have been received. ents have been received in Appriority documents have been	pplication No				
* See the attached detailed Office action for a l	list of the certified copies not i	received.				
Attachment(s)						
 Notice of References Cited (PTO-892) D Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) [] Interview Si Paper No(s	ummary (PTO-413))/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date		formal Patent Application (PTO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 21/23/2004 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1, 4, 5, 7-13, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi (U.S. Patent No. 5,940,824) in view of Sugiyama (Japan Patent No. JP404291881A).

Regarding claim 1, Takahashi discloses:

- a storage device for storing compressed image data, said storage device including the image database (Fig. 1: main image file D4);
- a retrieval device for retrieving said image while said compressed image data is in a compressed state (Fig. 1: search unit 12);
- a compression device for compressing image data to produce said compressed image data (Fig. 1: compression processing unit 15).

Takahashi does not specifically teach normalization of the image data prior to compression of said image data. One skilled in the art would have clearly recognized that the Takahashi system is to improve the total retrieval accuracy (col. 13, lines 55-60).

Sugiyama, in the same field of endeavor, teaches:

- normalizing for correcting fluctuation of said image data in reading prior to compression of said image data of said image to perform setup of said image data to achieve a predetermined reference value of the compressed image data, in which the high accuracy is obtained (see Abstract: purpose and Constitution; and Fig. 1: normalizing part 2).

Therefore, it would have been obvious to perform normalization in Takahashi as taught by Sugiyama in order to improve the total retrieval accuracy.

Regarding claim 4, Takahashi teaches:

- wherein said storage device stores said compressed image data and information of the image under a correspondence therebetween (Fig. 1: main image file

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D4 storing compressed image data outputted from compression processing unit 15 and information outputted from keyword application unit 18 under a correspondence therebetween).

Regarding claim 5, Takahashi teaches:

- wherein said information of a correspondence image is read from said data base in accordance with a result retrieved by said retrieval device (Fig. 1: information of a correspondence image is read from said data base D4 in accordance with a result retrieved by said retrieval device 12).

Regarding claim 7, Takahashi teaches:

- compressed image data comprises spatial coefficients of a luminance signal and a color difference signal (col. 8, lines 31-35).

Regarding claim 8, Takahashi teaches:

- comparing the spatial coefficients of the luminance signal up to a specified order with each other to select objects to be retrieved (col. 7, lines 43-49), and thereby comparing the spatial coefficients of the color difference signal of the thus selected objects to be retrieved to another specified order with each other, and retrieval by comparing the spatial coefficients of the luminance signal up to a higher order than the previously specified order with each other (col. 11, lines 28-42).

Regarding claim 9, Takahashi teaches wherein said retrieval device performs priority ranking of said compressed image data to be candidate (col. 11, lines 11-20).

Regarding claim 10, Takahashi teaches:

- after said compressed image data is extended, one or more images are
represented as visible images in accordance with the result of said priority ranking (Fig. 5 shows the visible images and Fig. 6 shows retrieval result after expanding the compressed image).

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Regarding claim 11, Otto teaches:

- said information is at least one of image data of the image of interest and information of image processing to which the image of interest is subjected (col. 7, lines 47-53).

Regarding claim 12, Takahashi discloses:

- an image processing device for subjecting image or image data thereof to image processing (Fig. 1: scanner 21 and image input);
- a setting device for setting said image processing which said image processing device performs in accordance with image or image data thereof (Fig. 1: keyword application unit 18 or compression processing unit 15);
- a storage device for storing compressed image data (Fig. 1: main image file D4);
- a retrieval device for retrieving said image while said compressed image data is in a compressed state (Fig. 1: search unit 12);
- a compression device for compressing image data to produce said compressed image data (Fig. 1: compression processing unit 15).

Takahashi does not specifically teach normalization of the image data prior to compression of said image data. One skilled in the art would have clearly recognized that the Takahashi system is to improve the total retrieval accuracy (col. 13, lines 55-60).

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high accuracy is obtained (see Abstract: purpose and Constitution; and Fig. 1: normalizing part 2).

Therefore, it would have been obvious to perform normalization in Takahashi as taught by Sugiyama in order to improve the total retrieval accuracy.

Regarding claim 13, Takahashi teaches:

- when said information of the image processing corresponding to said image retrieved by said retrieval device is read out in accordance with an instruction for reprocessing said image or image data thereof, said setting device reproduces said image processing to which said image or said image data thereof has previously been subjected using the thus read information of said image processing (col. 5, lines 7-22).

Regarding claims 17 and 18, Otto teaches wherein said normalization is performed so that the averages of the compressed image data become equal to each other (col. 9, lines 10-18, teaches the mean is equal to the pixel values of the image data).

Allowable Subject Matter

- 3. Claims 2, 14, 15, and 16 are allowed.
- 4. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. The following is a statement of reasons for the indication of allowable subject matter:

Regarding independent claims 15 and 16 and dependent claim 6, the prior art, either taken singly or in combination, does not teach:

 wherein said retrieval device performs retrieval of said image using said compressed image data after said compressed image data of said split images in regions which are in point symmetry relation with each other about the center of said image are added.

Regarding claims 2 and 14, since these claims depend upon claims 15 and 16 respectively, they are also allowable for the same reason.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H DO whose telephone number is 703-308-6720. The examiner can normally be reached on 5/4-9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID K MOORE can be reached on 703-308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 8, 2004.

ANH HONG DO